

Title (en)
TOMOGRAPHIC IMAGE PROCESSING DEVICE, OPHTHALMIC DEVICE COMPRISING THE SAME AND NON-TRANSITORY COMPUTER-READABLE RECORDING MEDIUM STORING COMPUTER-READABLE INSTRUCTIONS FOR TOMOGRAPHIC IMAGE PROCESSING DEVICE

Title (de)
TOMOGRAFISCHE BILDVERARBEITUNGSVORRICHTUNG, OPHTHALMISCHE VORRICHTUNG DAMIT UND NICHTFLÜCHTIGES, COMPUTERLESBARES AUFZEICHNUNGSMEDIUM MIT DARAUF GESPEICHERTEN COMPUTERLESBAREN ANWEISUNGEN FÜR DIE TOMOGRAFISCHE BILDVERARBEITUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE TRAITEMENT D'IMAGES TOMOGRAPHIQUES, DISPOSITIF OPHTALMIQUE LE COMPRENANT ET SUPPORT D'ENREGISTREMENT LISIBLE PAR ORDINATEUR NON TRANSITOIRE STOCKANT DES INSTRUCTIONS LISIBLES PAR ORDINATEUR POUR DISPOSITIF DE TRAITEMENT D'IMAGES TOMOGRAPHIQUES

Publication
EP 3571980 A1 20191127 (EN)

Application
EP 19174888 A 20190516

Priority
JP 2018094727 A 20180516

Abstract (en)
A tomographic image processing device may include: an input unit configured to input a tomographic image of a subject eye; a processor; and a memory storing computer-readable instructions therein. The computer-readable instructions, when executed by the processor, may cause the processor to execute: acquiring a tomographic image of a normal eye; acquiring a tomographic image of an eye having an abnormal portion; extracting a feature amount of the abnormal portion by using machine learning from the tomographic image of the normal eye and the tomographic image of the eye having the abnormal portion; acquiring a tomographic image of the subject eye inputted to the input unit; and determining whether the tomographic image of the subject eye includes an abnormal portion based on the feature amount.

IPC 8 full level
A61B 3/10 (2006.01); **G06N 3/02** (2006.01); **G06N 20/00** (2019.01); **G06T 7/00** (2017.01)

CPC (source: EP US)
A61B 3/102 (2013.01 - EP US); **G06T 7/0012** (2013.01 - EP US); **G16H 30/40** (2017.12 - US); **G06N 20/00** (2018.12 - EP); **G06T 2207/10072** (2013.01 - US); **G06T 2207/10101** (2013.01 - EP); **G06T 2207/20076** (2013.01 - EP); **G06T 2207/20081** (2013.01 - EP US); **G06T 2207/30041** (2013.01 - EP US); **G06T 2207/30096** (2013.01 - EP)

Citation (applicant)
JP 2017176842 A 20171005 - TOPCON CORP

Citation (search report)
• [XY] US 2012184845 A1 20120719 - ISHIKAWA HIROSHI [US], et al
• [X] EP 2957219 A1 20151223 - CANON KK [JP]
• [Y] EP 3278720 A1 20180207 - TOMEY CORP [JP]
• [Y] US 2013188135 A1 20130725 - IWASE YOSHIHIKO [JP], et al

Cited by
US2022319052A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3571980 A1 20191127; JP 2019198475 A 20191121; JP 2023009236 A 20230119; JP 7185255 B2 20221207; JP 7382675 B2 20231117; US 11024416 B2 20210601; US 2019355466 A1 20191121

DOCDB simple family (application)
EP 19174888 A 20190516; JP 2018094727 A 20180516; JP 2022183346 A 20221116; US 201916411524 A 20190514